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Run on: June 16, 2010, 20:11:08 ; Search time 1293 Seconds
(without alignments)
93164.247 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 21196085 seqs, 57036634027 residues

Total number of hits satisfying chosen parameters: 42392170

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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SUMMARIES

Result No.	Query			DB	ID	Description
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1	1056	100.0	11928	9	CS175724	CS175724 Sequence
2	1056	100.0	11928	9	CS433133	CS433133 Sequence
3	1056	100.0	100140	9	CS175723	CS175723 Sequence
4	1056	100.0	100140	9	CS433132	CS433132 Sequence
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7	1042.4	98.7	11539	9	CS175727	CS175727 Sequence
8	1042.4	98.7	11539	9	CS433136	CS433136 Sequence
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ALIGNMENTS

RESULT 1
CS175724
LOCUS CS175724 11928 bp DNA linear PAT 12-OCT-2005
DEFINITION Sequence 2 from Patent WO2005090559.
ACCESSION CS175724
VERSION CS175724.1 GI:77627140
KEYWORDS .
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.
REFERENCE 1
AUTHORS Rohrschneider, L.R.
TITLE Methods and compositions involving s-ship promoter regions
JOURNAL Patent: WO 2005090559-A 2 29-SEP-2005;
Fred Hutchinson Cancer Research Center (US)
FEATURES
source Location/Qualifiers
1. .11928
/organism="Mus musculus"
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ORIGIN

Query Match 100.0%; Score 1056; DB 9; Length 11928;
Best Local Similarity 100.0%;
Matches 1056; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	5686	CACCACACGGCCAATACTCCCCCACAACCTCTCCCAAATCCCCTCTACCCACTCAAATTC	5745
QY	121	TTATCTTGTATTCTTTATCATTTATTATACATATGTGTATATATATGTGTGTGTATATATA	180
Db	5746	TTATCTTGTATTCTTTATCATTTATTATACATATGTGTATATATGTGTGTGTATATATA	5805
QY	181	TATATACTATACTGCTAATGAGTAACATTTAGTGTATTTCATTTGTTGCATGTTTTCAA	240
Db	5806	TATATACTATACTGCTAATGAGTAACATTTAGTGTATTTCATTTGTTGCATGTTTTCAA	5865
QY	241	TGTGCTTTCCAGGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCCTAGCTGCACAAAGCCT	300
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QY	301	AAGGACCAGGGTTCAGATCCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	360
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QY	361	TACTAGCATGCTTGCTGGAAGCAAAAGACAGGGAATCCCCTGGAGACTTAGAATCTCAGAAG	420
Db	5986	TACTAGCATGCTTGCTGGAAGCAAAAGACAGGGAATCCCCTGGAGACTTAGAATCTCAGAAG	6045
QY	421	TGATCTGGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	480
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QY	481	CTCCATAACATAAAAGTGTGATGGAGAAAAGGCACCTAAATGTCAAAACCTCAAAACCCCTACCTG	540
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Db	6526	AAGGGTTACAGGATTCACCACTGGGGTGTGGCCTATCTGCTGTTAGGACCTGAATTGCCT	6585
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RESULT 2
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LOCUS CS433133 11928 bp DNA linear PAT 19-OCT-2006
DEFINITION Sequence 2 from Patent WO2006102188.

ACCESSION CS433133
VERSION CS433133.1 GI:116286367

KEYWORDS

SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE

1
AUTHORS Rohrschneider, L.R.
TITLE Methods and compositions involving the s-ship promoter
JOURNAL Patent: WO 2006102188-A 2 28-SEP-2006;
Fred Hutchinson Cancer Research Center (US)

FEATURES

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Query Match 100.0%; Score 1056; DB 9; Length 11928;

Best Local Similarity 100.0%;

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Qy	181	TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTTCATTGTTGCATGTTTCAA	240	
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Qy	241	TGTGCTTTCACGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCAGCTGCACAAAGCCT	300	
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Db	5926	AAGGACCAGGGTTCAGATCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	5985	
Qy	361	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCCTGGAGACTTAGAATCTCAGAAG	420	
Db	5986	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCCTGGAGACTTAGAATCTCAGAAG	6045	
Qy	421	TGATCTGGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCTAC	480	
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Db	6346	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	6405
Qy	781	TACACAGTGCTAAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	840
Db	6406	TACACAGTGCTAAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	6465
Qy	841	GTCGGGGTCTGGGCCAGGATGACGGGCCAACTGATCTTTGCCGGGGCTTGTCCTTCAGGG	900
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DEFINITION	Sequence 1 from Patent WO2005090559.			PAT 12-OCT-2005

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 CS175723.1 GI:77627139
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 Mus musculus (house mouse)
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE

AUTHORS Rohrschneider, L.R.
TITLE Methods and compositions involving s-ship promoter regions
JOURNAL Patent: WO 2005090559-A 1 29-SEP-2005;
Fred Hutchinson Cancer Research Center (US)

FEATURES

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Best Local Similarity	100.0%;			
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QY	361	TACTAGCATGCTTGCTGGAAGCAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	420	
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Qy	661	TTGGTGAAACCCCATGCATTTGCATTTGTGTGTCTCTACAAACACTGAAAGGTTAAGAAGC	720
Db	55415	TTGGTGAAACCCCATGCATTTGCATTTGTGTGTCTCTACAAACACTGAAAGGTTAAGAAGC	55474
Qy	721	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	780
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Qy	781	TACACAGTGTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	840
Db	55535	TACACAGTGTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	55594
Qy	841	GTCGGGTCTGGGCCAGGATGACGGGCCAACTGATCTTTGCCGGGCTTGTCCTTCAGGG	900
Db	55595	GTCGGGTCTGGGCCAGGATGACGGGCCAACTGATCTTTGCCGGGCTTGTCCTTCAGGG	55654
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RESULT 4

CS433132

LOCUS CS433132 100140 bp DNA linear PAT 19-OCT-2006

DEFINITION Sequence 1 from Patent WO2006102188.

ACCESSION CS433132

VERSION CS433132.1 GI:116286366

KEYWORDS .

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE 1

AUTHORS Rohrschneider,L.R.

TITLE Methods and compositions involving the s-ship promoter

JOURNAL Patent: WO 2006102188-A 1 28-SEP-2006;

Fred Hutchinson Cancer Research Center (US)

FEATURES

source

1. .100140

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/mol_type="unassigned DNA"

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ORIGIN

Query Match	100.0%;	Score 1056;	DB 9;	Length 100140;
Best Local Similarity	100.0%;			
Matches 1056;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	CACTTCCAGCTTCCTTTATCATTTTAAAAAGAAATTTCCCTATGTGACTACTGTATTAAAT	60	
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Db	55295	CATGTGCACACACATACATCCAC	55354
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RESULT 5

AC159967/c

LOCUS AC159967 185146 bp DNA linear ROD 10-AUG-2005
 DEFINITION Mus musculus chromosome 1, clone RP23-302P9, complete sequence.

ACCESSION AC159967

VERSION AC159967.2 GI:72096116

KEYWORDS HTG.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 185146)

AUTHORS Birren,B., Nusbaum,C. and Lander,E.

TITLE Mus musculus chromosome 1, clone RP23-302P9

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 185146)

AUTHORS

Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
 Anderson,M., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V.,
 Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J.,
 Choepel,Y., Collymore,A., Cook,A., Cooke,P., Corum,B.,
 DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L.,
 Erickson,J., Faro,S., Ferreira,P., FitzGerald,M., Gage,D.,
 Galagan,J., Gardyna,S., Graham,L., Grand-Pierre,N., Hafez,N.,
 Hagopian,D., Hagos,B., Hall,J., Horton,L., Hulme,W., Iliev,I.,
 Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., Landers,T.,
 Levine,R., Lindblad-Toh,K., Liu,G., Liu,X., Lui,A., Mabbitt,R.,
 MacLean,C., Macdonald,P., Major,J., Manning,J., Matthews,C.,
 McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,
 Murphy,T., Naylor,J., Nguyen,C., Nguyen,T., Nicol,R., Norbu,C.,
 O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K.,
 Phunkhang,P., Pierre,N., Rachupka,A., Ramasamy,U., Raymond,C.,
 Retta,R., Rise,C., Rogov,P., Roman,J., Schauer,S., Schupback,R.,
 Seaman,S., Severy,P., Smith,C., Spencer,B., Stange-Thomann,N.,
 Stojanovic,N., Stubbs,M., Talamas,J., Tesfaye,S., Theodore,J.,
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 Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L.,
 Zimmer,A. and Zody,M.

TITLE

Direct Submission

JOURNAL

Submitted (14-APR-2005) Broad Institute of MIT and Harvard, 320
 Charles Street, Cambridge, MA 02141, USA

REFERENCE

3 (bases 1 to 185146)

AUTHORS

Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
 Anderson,M., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V.,
 Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J.,
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Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L.,
Zimmer,A. and Zody,M.

TITLE
Direct Submission

JOURNAL
Submitted (10-AUG-2005) Broad Institute of MIT and Harvard, 320
Charles Street, Cambridge, MA 02141, USA

COMMENT
On Aug 10, 2005 this sequence version replaced gi:62543423.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center

Center: Broad Institute of MIT and Harvard

Center code: WIBR

Web site: <http://www-seq.wi.mit.edu>

Contact: sequence_submissions@broad.mit.edu

----- Project Information

Center project name: J5628

Center clone name: 302_P_9

Some of the sequence contained within base pairs 1 - 61047 was
stolen from accession AC102630

Some of the sequence contained within base pairs 75127 to the end

of the clone was stolen from accession AC102630

of the clone was stolen from accession AC102564.

FEATURES

source

Location/Qualifiers

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/map="1"

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/clone_lib="RPCI-23 Female Mouse BAC"

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7656. .7684

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Qy	781	TACACAGTGCTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	840
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AC102564/c

LOCUS AC102564 230474 bp DNA linear ROD 21-JAN-2005

DEFINITION Mus musculus chromosome 1, clone RP23-210C12, complete sequence.

ACCESSION AC102564

VERSION AC102564.7 GI:58000610

KEYWORDS HTG.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 230474)

AUTHORS Birren,B., Nusbaum,C. and Lander,E.

TITLE Mus musculus chromosome 1, clone RP23-210C12

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 230474)

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S., Barna,N., Bastien,V., Boguslavkiy,L., Boukhgalter,B., Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B., Choepel,Y., Colangelo,M., Collins,S., Collamore,A., Cook,A., Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Heaford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., LaRocque,K., Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Liu,G., MacLean,C., Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., McPheeters,R., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R.,

Seaman,S., Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.

Direct Submission

TITLE
JOURNAL

Submitted (23-NOV-2001) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 230474)

REFERENCE

AUTHORS

Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
Anderson,M., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V.,
Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J.,
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Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L.,
Zimmer,A. and Zody,M.

Direct Submission

TITLE
JOURNAL

Submitted (10-DEC-2004) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA

REFERENCE

REFERENCE	4 (bases 1 to 230474)
AUTHORS	Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N., Anderson,M., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J., Choepel,Y., Collymore,A., Cook,A., Cooke,P., Corum,B., DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S., Ferreira,P., FitzGerald,M., Gage,D., Galagan,J., Gardyna,S., Graham,L., Grand-Pierre,N., Hafez,N., Hagopian,D., Hagos,B., Hall,J., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R., Lindblad-Toh,K., Liu,G., Liu,X., Lui,A., Mabbitt,R., MacLean,C., Macdonald,P., Major,J., Manning,J., Matthews,C., McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nguyen,T., Nicol,R., Norbu,C., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Rachupka,A., Ramasamy,U., Raymond,C., Retta,R., Rise,C., Rogov,P., Roman,J., Schauer,S., Schupback,R., Seaman,S., Severy,P., Smith,C., Spencer,B., Stange-Thomann,N., Stojanovic,N., Stubbs,M., Talamas,J., Tesfaye,S., Theodore,J., Topham,K., Travers,M., Vassiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
TITLE	Direct Submission
JOURNAL	Submitted (21-JAN-2005) Broad Institute of MIT and Harvard, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT	On Jan 21, 2005 this sequence version replaced gi:55831552. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html ----- Genome Center Center: Broad Institute of MIT and Harvard Center code: WIBR Web site: http://www-seq.wi.mit.edu Contact: genome@genome.washington.edu

Contact: sequence_submissions@broad.mit.edu

----- Project Information

Center project name: L19015

Center clone name: 210_C_12

FEATURES

Location/Qualifiers

source

1. .230474

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	Best Local Similarity	100.0%;			
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Db	12995	CACCACACGGCCAAATACTCCCCCCCCAACTCCTCCCAAAATCCCCTCTACCCACTCAAATTC	12936		
Qy	121	TTATCTTGTATTCTTTATCATTTATACATAATGTGTATATATATGTGTGTGTATATATA	180		
Db	12935	TTATCTTGTATTCTTTATCATTTATACATAATGTGTATATATGTGTGTGTATATATA	12876		
Qy	181	TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTTCATTTGTTGCATGTTTCAA	240		
Db	12875	TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTTCATTTGTTGCATGTTTCAA	12816		
Qy	241	TGTGCTTTCACGAGGCTGGGGGGATGGCTCAGTGGGCAAAATTCAGCTGCACAAGCCT	300		
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Qy	301	AAGGACCAAGGTTTCAGATCCCCCAATATAAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	360		
Db	12755	AAGGACCAAGGTTTCAGATCCCCCAATATAAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	12696		
Qy	361	TACTAGCATGCTTGCTGGAAGCAAAAGACAGGGAATCCCCTGGAGACTTAGAATCTCAGAAG	420		
				

Db	12695	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	12636
Qy	421	TGATCTGGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	480
Db	12635	TGATCTGGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	12576
Qy	481	CTCCATAACATAAAAGTGTGATGGAGAAAGGCACCTAAATGTCAACCTCAAAACCCCTACCTG	540
Db	12575	CTCCATAACATAAAAGTGTGATGGAGAAAGGCACCTAAATGTCAACCTCAAAACCCCTACCTG	12516
Qy	541	CATGTGCACACACATACATCCA	600
Db	12515	CATGTGCACACACATACATCCA	12456
Qy	601	CACACACACACACAAATAAATAAGTAAATAAATAAATAATTTAGCTCTCCAGACCAAATC	660
Db	12455	CACACACACACACAAATAAATAAGTAAATAAATAAATAATTTAGCTCTCCAGACCAAATC	12396
Qy	661	TTGGTGAAACCCATGCATTTGCATTTGTGTGTCTCTACAAACACTGAAAGGTTAAGAAGC	720
Db	12395	TTGGTGAAACCCATGCATTTGCATTTGTGTGTCTCTACAAACACTGAAAGGTTAAGAAGC	12336
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Db	12335	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	12276
Qy	781	TACACAGTGTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	840
Db	12275	TACACAGTGTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	12216
Qy	841	GTCGGGGTCTGGGCCAGGATGACGGGCCAACTGATCTTTGCCGGGGCTTGTCCTTCAGGG	900
Db	12215	GTCGGGGTCTGGGCCAGGATGACGGGCCAACTGATCTTTGCCGGGGCTTGTCCTTCAGGG	12156

Db 12215 GTCGGGGTCTGGGCCAGGATGACGGGGCCAACTGATCTTTGCCGGGGCTTGTCTTCAGGG 12156

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Db 12155 AAGGGTTACAGGATTACCCACTGGGGTGTGGCCTATCTGCTGTTAGGACCTGAATTGCCT 12096

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Db 12035 GTCATCAGGACTCTGCCATCCCTGGAGTCTCTGCAG 12000

RESULT 7

CS175727

LOCUS CS175727 11539 bp DNA linear PAT 12-OCT-2005

DEFINITION Sequence 5 from Patent WO2005090559.

ACCESSION CS175727

VERSION CS175727.1 GI:77627143

KEYWORDS .

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE 1

AUTHORS Rohrschneider, L.R.

TITLE Methods and compositions involving s-ship promoter regions

JOURNAL Patent: WO 2005090559-A 5 29-SEP-2005;

FEATURES Fred Hutchinson Cancer Research Center (US)

Location/Qualifiers

1 11539

source 1. .11539
/organism="Mus musculus"
/mol_type="unassigned DNA"
/db_xref="taxon:10090"

ORIGIN

Query Match	98.7%;	Score 1042.4;	DB 9;	Length 11539;
Best Local Similarity	99.8%;			
Matches 1054;	Conservative 0;	Mismatches 1;	Indels 1;	Gaps 1;

Qy	1	CACTTCCAGCTTCCTTTATCATTTTAAAAAGAAATTCCTATGTGACTACTGTATTTAAAT	60
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Qy	61	CACCACACGGCCAAATACTCCCCCCTCCCTCCCAAATCCCTCTACCCACTCAAATTC	120
Db	5331	CACCACACGGCCAAATACTCCCCCCTCCCTCCCAAATCCCTCTACCCACTCAAATTC	5390
Qy	121	TTATCTTGTAATCTTTATCATTTATACATATGTGTATATATGTGTGTGTATATATA	180
Db	5391	TTATCTTGTAATCTTTATCATTTATACATATGTGTATATATGTGTGTGTATATATA	5450
Qy	181	TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTTCATTGTTGCATGTTTCAA	240
Db	5451	TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTTCATTGTTGCATGTTTCAA	5510
Qy	241	TGTGCTTTCAGGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCAGCTGCACAAGCCT	300
Db	5511	TGTGCTTTCAGGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCAGCTGCACAAGCCT	5570
Qy	301	AAGGACCAGGGTTCAGATCCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	360
Db	5571	AAGGACCAGGGTTCAGATCCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	5630

Qy	361	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	420
Db	5631	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	5690
Qy	421	TGATCTGGCTGGACAGACTAGCTGAACCTGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	480
Db	5691	TGATCTGGCTGGACAGACTAGCTGAACCTGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	5750
Qy	481	CTCCATAACATAAAGTGTGATGGAGAAAGGCACCTAATGTCAACCTCAAAACCCCTACCTG	540
Db	5751	CTCCATAACATAAAGTGTGATGGAGAAAGGCACCTAATGTCAACCTCAAAACCCCTACCTG	5810
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Db	5811	CATGTGCACACACATACATCCAC	5870
Qy	601	CACACACACACACAAATAAAATAAGTAAATAAAATAAAATATTAGCTCTCCAGACCAAATC	660
Db	5871	CACACACACACACAAATAAAATAAGTAAATAAAATAAAATATTAGCTCTCCAGACCAAATC	5930
Qy	661	TGGTGAAACCCCATGCAATTTGCATTTGTGTGTCTCTACAAACACTGAAGGTTAAGAAGC	720
Db	5931	TGGTGAAACCCCATGCAATTTGCATTTGTGTGTCTCTACAAACACTGAAGGTTAAGAAGC	5990
Qy	721	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	780
Db	5991	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	6050
Qy	781	TACACAGTGCTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	840
Db	6051	TACACAGTGCTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	6110
---	841	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	900

QY	841	GTCGGGGTCTGGGCCAGGATACGGGGCCAACTGATCTTTGCCGGGGCTTGTCTTCAGGG	900
Db	6111	GTCGGGGTCTGGGCCAGGATACGGGGCCAACT-ATCTTTGCCCGGGCTTGTCTTCAGGG	6169
QY	901	AAGGGTTACAGGATTACCACTGGGGTGTGGCCTATCTGCTGTTAGGACCTGAATTGCCT	960
Db	6170	AAGGGTTACAGGATTACCACTGGGGTGTGGCCTATCTGCTGTTAGGACCTGAATTGCCT	6229
QY	961	GGAGTGTCTTAGTTCCTAGTTGTTGAACTTTACCTTGAACCTCTGCTCCAGGGAA	1020
Db	6230	GGAGTGTCTTAGTTCCTAGTTGTTGAACTTTACCTTGAACCTCTGCTCCAGGGAA	6289
QY	1021	GTCATCAGGACTCTGCCATCCCTGGAGTCTCTGCAG	1056
Db	6290	GTCATCAGGACTCTGCCATCCCTGGAGTCTCTGCAG	6325

RESULT 8

CS433136

LOCUS	CS433136	11539 bp	DNA	linear	PAT 19-OCT-2006
DEFINITION	Sequence 5 from Patent WO2006102188.				

ACCESSION CS433136

VERSION CS433136.1 GI:116286370

KEYWORDS

SOURCE Mus musculus (house mouse)

ORGANISM

Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE

1 Rohrschneider, L.R.

AUTHORS Methods and compositions involving the s-ship promoter

TITLE Patent: WO 2006102188-A 5 28-SEP-2006;

JOURNAL

Fred Hutchinson Cancer Research Center (US)

FEATURES

Location/Qualifiers

source

1. .11539

/organism="Mus musculus"

/mol_type="unassigned DNA"

/db_xref="taxon:10090"

misc_feature

1847

/note="N = A, C, G OR T/U"

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Query Match 98.7%; Score 1042.4; DB 9; Length 11539;

Best Local Similarity 99.8%;

Matches 1054; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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QY      181 TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTTCATTTGTTGCATGTTTCAA 240
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Qy	361	TACTAGCATGCTTGCTGGAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	420
Db	5631	TACTAGCATGCTTGCTGGAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	5690
Qy	421	TGATCTGGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	480
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Qy	481	CTCCATAACATAAAGTGTGATGGAGAAAGGCACCTAAATGTCAACCTCAAAACCCCTACCTG	540
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Qy	541	CATGTGCACACACATACATCCA	600
Db	5811	CATGTGCACACACATACATCCA	5870
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Qy	661	TTGGTGAAACCCATGCATTTGCATTTGTGTGTCTTACAAACACTGAAAGGTTAAGAAGC	720
Db	5931	TTGGTGAAACCCATGCATTTGCATTTGTGTGTCTTACAAACACTGAAAGGTTAAGAAGC	5990
Qy	721	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	780
Db	5991	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	6050
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Qy	781	TACACAGT	GCTAAATGGATTATGCTCAGATACAGATTGAAAAAGGATACAGATTGAAAAGG	840
Db	6051	TACACAGT	GCTAAATGGATTATGCTCAGATACAGATTGAAAAAGGATACAGATTGAAAAGG	6110
Qy	841	GTCGGGT	CTGGGCCAGGATGACGGGCCAACTGATCTTTGCCGGGGCTTGTCCTTCAGGG	900
Db	6111	GTCGGGT	CTGGGCCAGGATGACGGGCCAACT-ATCTTTGCCCGGGCTTGTCCTTCAGGG	6169
Qy	901	AAGGGT	TACAGGATTCACCACTGGGGTGTGGCCTATCTGCTGTAGGACCTGAATTGCCT	960
Db	6170	AAGGGT	TACAGGATTCACCACTGGGGTGTGGCCTATCTGCTGTAGGACCTGAATTGCCT	6229
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Db	6230	GGAGT	GTTTCTAGTTCCTCCACTAGTTGTTGAACTTTACCTTGAACTCTGCTCCCAGGGAA	6289
Qy	1021	GTCATC	AGGACTCTGCCATCCCTGGAGTCTCTGCAG	1056
Db	6290	GTCATC	AGGACTCTGCCATCCCTGGAGTCTCTGCAG	6325

RESULT 9				
AF235496S4				
LOCUS	AF235496S4	15913 bp	DNA	linear ROD 18-OCT-2000
DEFINITION	Mus musculus SH2-containing inositol 5-phosphatase (Ship) gene, exons 3 through 6.			
ACCESSION	AF235499			
VERSION	AF235499.1 GI:10863172			
KEYWORDS	.			
SEGMENT	4 of 7			
SOURCE	Mus musculus (house mouse)			
ORGANISM	Mus musculus			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Mus musculus			

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 15913)
AUTHORS Wolf, I., Lucas, D.M., Algate, P.A. and Rohrschneider, L.R.
TITLE Cloning of the genomic locus of mouse SH2 containing inositol
5-phosphatase (SHIP) and a novel 110-kDa splice isoform, SHIPdelta
JOURNAL Genomics 69 (1), 104-112 (2000)
PUBMED 11013080

REFERENCE 2 (bases 1 to 15913)
AUTHORS Wolf, I.B., Lucas, D.M., Algate, P.A. and Rohrschneider, L.R.
TITLE Direct Submission
JOURNAL Submitted (17-FEB-2000) Division of Basic Sciences, Fred Hutchinson
Cancer Research Center, 1100 Fairview Ave N, Seattle, WA
98109-1024, USA

FEATURES Location/Qualifiers
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ORIGIN

Query Match 98.7%; Score 1042.4; DB 14; Length 15913;
Best Local Similarity 99.8%;
Matches 1054; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy	1	CACTTCCAGCTTCCTTTATCATTTTAAAAAGAAATTTCCCTATGTGACTACTGTATTTAAAT	60
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Qy	181	TATATACTATATACTGCTAATGAGTAACATTTAGTGTATTCAATTGTTGCATGTTTCAA	240
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Qy	241	TGTGCTTTCACGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCCTAGCTGCACAAGCCT	300
Db	13780	TGTGCTTTCACGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCCTAGCTGCACAAGCCT	13839
Qy	301	AAGGACCAAGGTTTCAGATCCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	360
Db	13840	AAGGACCAAGGTTTCAGATCCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCCTATGA	13899
Qy	361	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	420
Db	13900	TACTAGCATGCTTGCTGGAAAGCAAAAGACAGGGAATCCCTGGAGACTTAGAATCTCAGAAG	13959

Db	13900	TACTAGCATGCTTGCTGGAAAGCAAAACACAGGGAATCCCCTGGAGACTTAGAAATCTCAGAAG	13959
Qy	421	TGATCTGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	480
Db	13960	TGATCTGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTTCATCAAGAAACCCCTAC	14019
Qy	481	CTCCATAACATAAAAGTGTGATGGAGAAAAGGCACCTAATGTCAACCTCAAAACCCCTACCTG	540
Db	14020	CTCCATAACATAAAAGTGTGATGGAGAAAAGGCACCTAATGTCAACCTCAAAACCCCTACCTG	14079
Qy	541	CATGTGCACACACATACATCCAC	600
Db	14080	CATGTGCACACACATACATCCACACACACACACACACACACACACACACACACACACAC	14139
Qy	601	CACACACACACACAAATAAAATAAGTAAATAAAATAAAATATTTAGCTCTCCAGACCAAATC	660
Db	14140	CACACACACACACAAATAAAATAAGTAAATAAAATAAAATATTTAGCTCTCCAGACCAAATC	14199
Qy	661	TTGGTGAAACCCCATGTCATTTGTCATTTGTGTGTGTCCTACAAACACTGAAAGGTTAAGAAGC	720
Db	14200	TTGGTGAAACCCCATGTCATTTGTCATTTGTGTGTGTCCTACAAACACTGAAAGGTTAAGAAGC	14259
Qy	721	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	780
Db	14260	ATGCTCCTTAGTAATTTTATAGCAGTTTGCGTTTCCAGATTGAAAACAGATTCTATAGGC	14319
Qy	781	TACACAGTGCTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	840
Db	14320	TACACAGTGCTAAATGGATTATGCTCAGATACAGATTGAAAAGGATACAGATTGAAAAGG	14379
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Db	14499	GGAGTGTCTTCTAGTTCACCACTAGTTGTTGAACCTTTACCTTGAACCTCTGCTCCCAGGGAA	14558
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Db	14559	GTCATCAGGACTCTGCCATCCCTGGAGTCTCTGCAG	14594

RESULT	10
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LOCUS	AF189741 938 bp DNA linear ROD 18-OCT-2001
DEFINITION	Mus musculus SH2-containing inositol phosphatase SHIP gene, partial sequence.
ACCESSION	AF189741
VERSION	AF189741.1 GI:16223960
KEYWORDS	.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.
REFERENCE	1 (bases 1 to 938)
AUTHORS	Tu,Z., Ninos,J., Wang,J.W., Lemos,M. and Kerr,W.G.
TITLE	An embryonic SHIP isoform generated by transcriptional initiation at an internal site participates in a different signaling complex than its hematopoietic counterpart
JOURNAL	Unpublished
COMMENTARY	

REFERENCE 2 (bases 1 to 938)
 AUTHORS Tu,Z. and Kerr,W.G.
 TITLE Direct Submission
 JOURNAL Submitted (24-SEP-1999) Cell and Molecular Biology, University of Pennsylvania, 1318 Blockley Hall, 418 Guardian Drive, Philadelphia, PA 19104, USA

FEATURES
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 /gene="SH2-containing inositol phosphatase SHIP"
 promoter 1. .913
 /gene="SH2-containing inositol phosphatase SHIP"
 exon 914. .>938
 /gene="SH2-containing inositol phosphatase SHIP"
 /number=1

ORIGIN

Query Match 84.9%; Score 896.2; DB 14; Length 938;
 Best Local Similarity 97.9%;
 Matches 921; Conservative 0; Mismatches 17; Indels 3; Gaps 2;

QY	57	AAATCACCACACGGCCAAATACTCCCCCCCAACTCCTCCCAAATCCCCTCTACCCACTCAA	116
Db	1	AAATCACCACACGGCCAAATACTCCCCCCCAACTCCTCCCAAATCCCCTCTACCCACTCAA	60
QY	117	ATTCTTATCTTGTATTCTTTATCATATTATACATATGTGTATATGTGTGTGTATA	176
Db	61	ATTCTTATCTTGTATTCTTTATCATATTATACATATGTGTATATGTGTGTGTATA	120
QY	177	TATATATACTATATACTGCTAATGAGTAACATTTAGTGTTATTTCATTGTTGCATGTTT	236
		

|||||
121 TATATATACTATATACTGCTAAATGAGTAACATTTAGTGTTATTCATTGTCNTGTTT 180 Db
237 TCAATGTGCTTTCCAGGAGGCTGGGGGATGGCTCAGTGGGCAAAATTCTAGCTGCACAA 296 Qy
|||||
181 NCAATGNGCTTTCCAGGNGGCTGGGGGANGGCTCAGNGGGCAAAATTCTAGCTGCACAA 240 Db
297 GCCTAAGGACCAGGTTTCAGATCCCCAATATAAAGGCTGGCTGGACATGGTGGCTTGCCT 356 Qy
|||||
241 GCCTAAGGACCAGGTTTCAGATCCCCAATATAAAGGCTGGCTGGACATGGGGGCTTGCCT 300 Db
357 ATGATACTAGCATGCTTGCTGGAAGCAAAGACAGGGAATCCCTGGAGACTTAGAATCTCA 416 Qy
|||||
301 ATGATACTAGCATGCTTGCTGGAAGCAAAGACAGGGAATCCCTGGAGACTTANAATCTCA 360 Db
417 GAAGTGATCTGGGCTGGACAGACTAGCTGAACTGGCCAGCTCTGGGTTTCATCAAGAAACC 476 Qy
|||||
361 NAAGTGATCTGGGCTGGACAGACTAGCTGAACTGGCCAGCTCTGGGTTTCATNAANAACC 420 Db
477 CTACCTCCATAACATAAAAGTGTGATGGAGAAAAGGCACCTAATGTCAACCTCAAAACCCCTA 536 Qy
||
421 CTNCTCCATAACATAAAAGTGTGANGGANAAGGCACCTAATGTCAACCTCAAAACCCCTA 480 Db
537 CCTGCATGTGCACACACATACATCCACACCACACACACACACACACACACACAC 596 Qy
|||||
481 CCTGCATGTGCACACACATACATCCACAC--CACACACACACGCACACACACACACAC 538 Db
597 CACACACACACACACAAAATAAAATAAGTAAATAAAATAATTTAGCTCTCCAGACCA 656 Qy
|||||
539 CACACACACACACACAAAATAAAATAAGTAAATAAAATAATTTAGCTCTCCAGACCA 598 Db
657 AATCTTGGTGAACCCCATGCAATTTGCATTTGTGTGTCTCCTACAAACACTGAAGGTTAAG 716 Qy
|||||
500 AATCTTGGTGAACCCCATGCAATTTGCATTTGTGTGTCTCCTACAAACACTGAAGGTTAAG 750 Db

Db	599	AATCTTGGTGAACCCCATGCATTTTGCA	TTTGTGTGTCTCCTACAAACACTGAAGGTTAAG	658
Qy	717	AAGCATGCTCCTTAGTAATTTTATAGCAGTTTGC	GTTCAGATTGAAAAACAGATTCTAT	776
Db	659	AAGCATGCTCCTTAGTAATTTTATAGCAGTTTGC	GTTCAGATTGAAAAACAGATTCTAT	718
Qy	777	AGGCTACACAGTGCTAAATGGATTATGCTCAGATA	CAGATTGAAAAGGATACAGATTGAA	836
Db	719	AGGCTACACAGTGCTAAATGGATTATGCTCAGATA	CAGATTGAAAAGGATACAGATTGAA	778
Qy	837	AAGGTCGGGGTCTGGGCCAGGATGACGGGCCAACT	GATCTTTGCCGGGGCTTGTCCTTC	896
Db	779	AAGGTCGGGGTCTGGGCCAGGATGACGGGCCAACT	-ATCTTTGCCCCGGGCTTGTCCTTC	837
Qy	897	AGGGAAGGGTTACAGGATTCACCACCTGGGGTG	TGGCCTATCTGCTGTTAGGACCTGAATT	956
Db	838	AGGGAAGGGTTACAGGATTCACCACCTGGGGTG	TGGCCTATCTGCTGTTAGGACCTGAATT	897
Qy	957	GCCTGGAGTGTCTTAGTCCCACTAGTTGTTGAAC	TTTAC	997
Db	898	GCCTGGAGTGTCTTAGTCCCACTAGTTGTTGAAC	TTTAC	938

RESULT 11				
CS175725				
LOCUS	CS175725	560 bp	DNA	linear PAT 12-OCT-2005
DEFINITION	Sequence 3 from Patent WO2005090559.			
ACCESSION	CS175725			
VERSION	CS175725.1 GI:77627141			
KEYWORDS	.			
SOURCE	Mus musculus (house mouse)			
ORGANISM	Mus musculus			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;			

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea; Muridae; Murinae; Mus.

REFERENCE

1

AUTHORS

Rohrschneider, L.R.

TITLE

Methods and compositions involving s-ship promoter regions

JOURNAL

Patent: WO 2005090559-A 3 29-SEP-2005;

Fred Hutchinson Cancer Research Center (US)

FEATURES

Location/Qualifiers

source

1..560

/organism="Mus musculus"

/mol_type="unassigned DNA"

/db_xref="taxon:10090"

ORIGIN

Query Match	51.8%;	Score 547.4;	DB 9;	Length 560;
Best Local Similarity	99.6%;			
Matches 559;	Conservative 0;	Mismatches 1;	Indels 1;	Gaps 1;
QY	456	CTCTGGGTTTCATCAAGAAACCCTACCTCCATAACATAAAGTGTGATGGAGAAAGGCACCT	515	
Db	1	CTCTGGGTTTCATCAAGAAACCCTACCTCCATAACATAAAGTGTGATGGAGAAAGGCACCT	60	
QY	516	AATGTCAACCTCAAAACCCCTACCTGCATGTGCACACACACATACATCCACACACACACACA	575	
Db	61	AATGTCAACCTCAAAACCCCTACCTGCATGTGCACACACACATACATCCACACACACACA	120	
QY	576	CACACACACACACACACACACCACACACACACACACACAAATAAATAAATAA	635	
Db	121	CACACACACACACACACACACCACACACACACACACACAAATAAATAAATAA	180	
QY	636	AATATTTAGCTCTCCAGACCAAAATCTTGGTGAACCCCATGCAATTGTGTGTGTC	695	
Db	181	AATATTTAGCTCTCCAGACCAAAATCTTGGTGAACCCCATGCAATTGTGTGTGTC	240	

Qy	696	CTACAAAACACTGAAGGTTAAGAAGCA	TGCTCCTTAGTAATTTATAGCAGTTTGC	755
Db	241	CTACAAAACACTGAAGGTTAAGAAGCA	TGCTCCTTAGTAATTTATAGCAGTTTGC	300
Qy	756	CAGATTGAAAAACAGATTCTATAGGCT	TACACAGTGCTAAATGGATTATGCTCAG	815
Db	301	CAGATTGAAAAACAGATTCTATAGGCT	TACACAGTGCTAAATGGATTATGCTCAG	360
Qy	816	TTGAAAAAGGATACAGATTGAAAAAGG	TCGGGTCCTGGGCCAGGATGACGGGCC	875
Db	361	TTGAAAAAGGATACAGATTGAAAAAGG	TCGGGTCCTGGGCCAGGATGACGGGCC	419
Qy	876	CTTTGCCGGGCTTGTCCTTCAGGGAAG	GGTTACAGGATTCACCACTGGGGTGTG	935
Db	420	CTTTGCCGGGCTTGTCCTTCAGGGAAG	GGTTACAGGATTCACCACTGGGGTGTG	479
Qy	936	TCTGCTGTTAGGACCTGAATTGCCCTG	GAGTGTTTCTAGTCCCAGTGTGTTGA	995
Db	480	TCTGCTGTTAGGACCTGAATTGCCCTG	GAGTGTTTCTAGTCCCAGTGTGTTGA	539
Qy	996	ACCTTGAAACCTCTGCTCCCGAG	1016	
Db	540	ACCTTGAAACCTCTGCTCCCGAG	560	

RESULT 12				
CS433134				
LOCUS	CS433134	560 bp	DNA	linear PAT 19-OCT-2006
DEFINITION	Sequence 3 from Patent WO2006102188.			
ACCESSION	CS433134			
VERSION	CS433134.1 GI:116286368			
KEYWORDS	.			
COMMENT	Mol. Biol. Evol. 24:1000-1001 (2007)			

Qy	636	AATATTTAGCTCTCCAGACCAAAATCTTGGTGAAACCCATGCATTTGTCATTTGTGTGTGTC	695
Db	181	AATATTTAGCTCTCCAGACCAAAATCTTGGTGAAACCCATGCATTTGTCATTTGTGTGTGTC	240
Qy	696	CTACAAAACACTGAAGGTTAAGAAGCATGCTCCTTAGTAATTTATAGCAGTTTGCGTTTC	755
Db	241	CTACAAAACACTGAAGGTTAAGAAGCATGCTCCTTAGTAATTTATAGCAGTTTGCGTTTC	300
Qy	756	CAGATTGAAAAACAGATTCTATAGGCTACACAGTGCTAAATGGATTATGCTCAGATACAGA	815
Db	301	CAGATTGAAAAACAGATTCTATAGGCTACACAGTGCTAAATGGATTATGCTCAGATACAGA	360
Qy	816	TTGAAAAGGATACAGATTGAAAAGGGTCGGGGTCTGGGCCAGGATGACGGGCCAACTGAT	875
Db	361	TTGAAAAGGATACAGATTGAAAAGGGTCGGGGTCTGGGCCAGGATGACGGGCCAACT-AT	419
Qy	876	CTTTGCCGGGGCTTGTCCTTCAGGGAAGGTTACAGGATTCACCACTGGGGTGTGGCCTA	935
Db	420	CTTTGCCGGGGCTTGTCCTTCAGGGAAGGTTACAGGATTCACCACTGGGGTGTGGCCTA	479
Qy	936	TCTGCTGTTAGGACCTGAATTGCCCTGGAGTGTTTCTAGTTCCCACCTAGTTGTTGAACTTT	995
Db	480	TCTGCTGTTAGGACCTGAATTGCCCTGGAGTGTTTCTAGTTCCCACCTAGTTGTTGAACTTT	539
Qy	996	ACCTTGAAACCTCTGCTCCCCAG	1016
Db	540	ACCTTGAAACCTCTGCTCCCCAG	560

RESULT 13
AC102987

LOCUS AC102987 247782 bp DNA linear HTG 10-MAY-2003
DEFINITION Rattus norvegicus clone CH230-52N2, WORKING DRAFT SEQUENCE, 3

unordered pieces.	
AC102987	AC102987
AC102987.5	GI:30521881
HTG; HTGS_PHASE1;	HTGS_DRAFT; HTGS_FULLTOP.
Rattus norvegicus	(Norway rat)
Rattus norvegicus	
Eukaryota; Metazoa;	Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria;	Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidea;	Muridae; Murinae; Rattus.
1	(bases 1 to 247782)
Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J., Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D., Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H., Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F., Biswalo,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M., Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E., Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J., Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L., Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D., Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K., Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K., Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G., Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P., Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M., Gebregeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W., Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K., Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J., Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hognes,M., Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A., Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A., Karpathy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C., Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,	
REFERENCE	
AUTHORS	

Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorensuhewa, L., Loulseged, H., Lozado, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindartne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhiney, S., McLeod, M.P., McNeill, T.Z., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokelimeh, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkoch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S.J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smajls, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleczyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

TITLE Direct Submission

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 247782)

AUTHORS Worley, K.C.

TITLE Direct Submission

JOURNAL Submitted (26-NOV-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted May 7, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

REFERENCE
AUTHORS
TITLE
JOURNAL

Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 247782)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (10-MAY-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

COMMENT

On May 10, 2003 this sequence version replaced gi:23264611.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center

Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GHEE
Center clone name: CH230-52N2

----- Summary Statistics

Assembly program: Atlas 3.0;
Consensus quality: 237739 bases at least Q40
Consensus quality: 240323 bases at least Q30
Consensus quality: 242042 bases at least Q20

Estimated insert size: 247461; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 244348: contig of 244348 bp in length
* 244349 244448: gap of unknown length
* 244449 246420: contig of 1972 bp in length
* 246421 246520: gap of unknown length
* 246521 247782: contig of 1262 bp in length.

FEATURES

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/mol_type="genomic DNA"
/db_xref="taxon:10116"
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site:EcoRI;
end_sequence:BH318096"

misc_feature complement(187978. .243289)
/note="clone_boundary"

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QY	413	CTCAGAAAGTGATCTGGGCTGGACAGACTAGCTGAACTGGCCAGCTCTGGGTTTCATCAAGA	472
Db	146518	CTCTGAAGTGAGCT-GGCTGGACAGACTAGCTGAAATCGACCAGCTCTGGGTTTCATCAAGA	146576
QY	473	AACCCCTACCTCCATAACATAAAGTGTGATGGAGAAAGGCACCTAATGTCAACCTCAAAAC	532
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QY	533	CCTACCTGCATGTGCACACACATACATCCACACCCACACACACACACACACACACAC	592
Db	146627	CCTACATGCATGTGCACACACATACATGCACACACACACAAAATAAGTTAATGAATAAAAT	146686
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Db	146807	TTTAAGAAAATATGCTCCTAAGTAATTTTATAGTTGTTTGTGTTTCCAGATTAGAAAACAGA	146866

REFERENCE
AUTHORS

Sciurognathi; Muroidea; Muridae; Murinae; Rattus.
1 (bases 1 to 179418)
Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D.,
Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,
Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,
Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K.,
Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,
Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebregeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,
Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K.,
Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J.,
Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hognes,M.,
Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A.,
Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpathy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,
Lorensuhewa,L., Loulseged,H., Lozado,R.J., Lu,X., Ma,J.,
Maheshwari,M., Mahindartne,M., Mahmoud,M., Malloy,K., Mangum,A.,
Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,
Mawhiney,S., Mcleod,M., Mcneill,T., Meenen,E., Milosavljevic,A.,
Miner,G., Minja,E., Montemayor,J., Moore,S., Morgan,M., Morris,K.,
Morris,S., Munidasa,M., Murphy,M., Nair,L., Nankervis,C., Neal,D.,
Newton,N., Nguyen,N., Norris,S., Nwaokellemeh,O., Okwuonu,G.,

Olarnpunsagoon,A., Pal,S., Parks,K., Pasternak,S., Paul,H.,
 Perez,A., Perez,L., Pfannkoch,C., Plopper,F., Poindexter,A.,
 Popovic,D., Primus,E., Pu,L.-L., Puazo,M., Quiroz,J., Rachlin,E.,
 Reeves,K., Regier,M.A., Reigh,R., Reilly,B., Reilly,M., Ren,Y.,
 Reuter,M., Richards,S., Riggs,F., Rives,C., Rodkey,T., Rojas,A.,
 Rose,M., Rose,R., Ruiz,S.J., Sanders,W., Savery,G., Scherer,S.,
 Scott,G., Shatsman,S., Shen,H., Shetty,J., Shvartsbeyn,A.,
 Sisson,I., Sitter,C.D., Smajs,D., Sneed,A., Sodergren,E.,
 Song,X.-Z., Sorelle,R., Sosa,J., Steimle,M., Strong,R., Sutton,A.,
 Svatek,A., Tabor,P., Taylor,C., Taylor,T., Thomas,N., Thomas,S.,
 Tingey,A., Trejos,Z., Usmani,K., Valas,R., Vera,V., Villasana,D.,
 Waldron,L., Walker,B., Wang,J., Wang,Q., Wang,S., Warren,J.,
 Warren,R., Wei,X., White,F., Williams,G., Willson,R., Wleczyk,R.,
 Wooden,H., Worley,K., Wright,D., Wright,R., Wu,J., Yakub,S.,
 Yen,J., Yoon,L., Yoon,V., Yu,F., Zhang,J., Zhou,J., Zhou,X.,
 Zhao,S., Dunn,D., von Niederhausern,A., Weiss,R., Smith,D.R.,
 Holt,R.A., Smith,H.O., Weinstock,G. and Gibbs,R.A.

TITLE

JOURNAL
 Unpublished

REFERENCE
 2 (bases 1 to 179418)

AUTHORS
 Worley,K.C.

TITLE
 Direct Submission

JOURNAL
 Submitted (07-MAR-2003) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA

REFERENCE
 3 (bases 1 to 179418)

AUTHORS
 Worley,K.C.

TITLE
 Direct Submission

JOURNAL
 Submitted (27-MAR-2003) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA

COMMENT
 ----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

```

Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GXKG
Center clone name: CH230-195L1
----- Summary Statistics
Sequencing vector: Plasmid;
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 139634 bases at least Q40
Consensus quality: 148988 bases at least Q30
Consensus quality: 156753 bases at least Q20
Estimated insert size: 145919; sum-of-contigs estimation
Quality coverage: 2x in Q20 bases; sum-of-contigs estimation
-----
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 67 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*      1 1465: contig of 1465 bp in length
*      1466 1565: gap of unknown length
*      1566 2744: contig of 1179 bp in length
*      2745 2844: gap of unknown length
*      2845 3976: contig of 1132 bp in length
*      3977 4076: gap of unknown length
*      4077 5663: contig of 1587 bp in length
*      5664 5700: gap of unknown length

```

*	5664	5763:	gap of	unknown	length
*	5764	7208:	contig	of 1445	bp in length
*	7209	7308:	gap of	unknown	length
*	7309	8597:	contig	of 1289	bp in length
*	8598	8697:	gap of	unknown	length
*	8698	9901:	contig	of 1204	bp in length
*	9902	10001:	gap of	unknown	length
*	10002	11343:	contig	of 1342	bp in length
*	11344	11443:	gap of	unknown	length
*	11444	12518:	contig	of 1075	bp in length
*	12519	12618:	gap of	unknown	length
*	12619	14117:	contig	of 1499	bp in length
*	14118	14217:	gap of	unknown	length
*	14218	15454:	contig	of 1237	bp in length
*	15455	15554:	gap of	unknown	length
*	15555	17016:	contig	of 1462	bp in length
*	17017	17116:	gap of	unknown	length
*	17117	18499:	contig	of 1383	bp in length
*	18500	18599:	gap of	unknown	length
*	18600	19774:	contig	of 1175	bp in length
*	19775	19874:	gap of	unknown	length
*	19875	21219:	contig	of 1345	bp in length
*	21220	21319:	gap of	unknown	length
*	21320	22672:	contig	of 1353	bp in length
*	22673	22772:	gap of	unknown	length
*	22773	24752:	contig	of 1980	bp in length
*	24753	24852:	gap of	unknown	length
*	24853	26001:	contig	of 1149	bp in length
*	26002	26101:	gap of	unknown	length
*	26102	28650:	contig	of 2549	bp in length
*	28651	28750:	gap of	unknown	length
*	28751	30694:	contig	of 1944	bp in length
*	30695	30794:	gap of	unknown	length
*	30795	30894:	contig	of 1000	bp in length

*	30795	32634:	contig of 1840 bp in length
*	32635	32734:	gap of unknown length
*	32735	35068:	contig of 2334 bp in length
*	35069	35168:	gap of unknown length
*	35169	36796:	contig of 1628 bp in length
*	36797	36896:	gap of unknown length
*	36897	38190:	contig of 1294 bp in length
*	38191	38290:	gap of unknown length
*	38291	39461:	contig of 1171 bp in length
*	39462	39561:	gap of unknown length
*	39562	41210:	contig of 1649 bp in length
*	41211	41310:	gap of unknown length
*	41311	43224:	contig of 1914 bp in length
*	43225	43324:	gap of unknown length
*	43325	45608:	contig of 2284 bp in length
*	45609	45708:	gap of unknown length
*	45709	47065:	contig of 1357 bp in length
*	47066	47165:	gap of unknown length
*	47166	48454:	contig of 1289 bp in length
*	48455	48554:	gap of unknown length
*	48555	50246:	contig of 1692 bp in length
*	50247	50346:	gap of unknown length
*	50347	52037:	contig of 1691 bp in length
*	52038	52137:	gap of unknown length
*	52138	53888:	contig of 1751 bp in length
*	53889	53988:	gap of unknown length
*	53989	55344:	contig of 1356 bp in length
*	55345	55444:	gap of unknown length
*	55445	56683:	contig of 1239 bp in length
*	56684	56783:	gap of unknown length
*	56784	58824:	contig of 2041 bp in length
*	58825	58924:	gap of unknown length
*	58925	60588:	contig of 1664 bp in length
*	60589	60688:	gap of unknown length

*	60589	60688:	gap of unknown length
*	60689	63023:	contig of 2335 bp in length
*	63024	63123:	gap of unknown length
*	63124	65633:	contig of 2510 bp in length
*	65634	65733:	gap of unknown length
*	65734	67706:	contig of 1973 bp in length
*	67707	67806:	gap of unknown length
*	67807	69538:	contig of 1732 bp in length
*	69539	69638:	gap of unknown length
*	69639	71035:	contig of 1397 bp in length
*	71036	71135:	gap of unknown length
*	71136	72415:	contig of 1280 bp in length
*	72416	72515:	gap of unknown length
*	72516	75179:	contig of 2664 bp in length
*	75180	75279:	gap of unknown length
*	75280	77087:	contig of 1808 bp in length
*	77088	77187:	gap of unknown length
*	77188	78940:	contig of 1753 bp in length
*	78941	79040:	gap of unknown length
*	79041	81122:	contig of 2082 bp in length
*	81123	81222:	gap of unknown length
*	81223	83707:	contig of 2485 bp in length
*	83708	83807:	gap of unknown length
*	83808	86713:	contig of 2906 bp in length
*	86714	86813:	gap of unknown length

Query Match		19.1%;	Score 201.2;	DB 4;	Length 179418;
Best Local Similarity		81.0%;			
Matches	277;	Conservative	0;	Mismatches	48; Indels 17; Gaps 3;
Qy	230	CATGTTTTC	AATGTGCTTTCCAGGAGGCTGGGGGATGGCTCAGTGGGCAAAATCTAGC	289	
Db	11317	CAATGTTTT	TTCTGTGCTTTCCAGGAGGCTGGGGAGATGGCTCAGTGGGTAAGTTCTTGC	11258	

QY	290	TGCACAAAGCCTAAAGGACCAGGGTTTCAGATCCCCA-----ATATAAAGGCTGGCTGGACA	343
Db	11257	TGCACAAACCTAAGGACCAGGGTTTCAGATCCCCCAATCAGCATAGAAAAGCTGGCTGGATG	11198
QY	344	TGGTGGCTTGCCCTATGATACTAGCATGCTTGCTGGAAGCAAAAGACAGGGAATCCCTGGAG	403
Db	11197	TGGTGGCTCTCCTATGATACTAGCGTGCTTGTGGGAGCAAAAGACGGGGAATCCCTAAAG	11138
QY	404	ACTTAGAATCTCAGAAAGTGATCTGGGCTGGACAGACTAGCTGAACTGGCCAGCTCTGGGT	463
Db	11137	ACATGGAATCTCTGAAGTGAGCT-GGCTGGACAGACTATCTGAATCGACCAGCTCTGGGT	11079
QY	464	TCATCAAGAAACCCCTACCTCCATAAACAATAAAAGTGTGATGGAGAAAGGCACCTAATGTCAA	523
Db	11078	TCATCAAGAAACCCCTACCTCCATCA-----AGAGCGTGATCACACCTAATGACAG	11029
QY	524	CCTCAAAACCCCTACCTGCATGTGCACACACATACATCCACAC	565
Db	11028	CCTCACGCCCCCTACATGCATGTGCACACACATACATGCACAC	10987

RESULT 15
AC111472

LOCUS	AC111472	262016 bp	DNA	linear	HTG 13-MAY-2003
DEFINITION	Rattus norvegicus clone CH230-82D4, WORKING DRAFT SEQUENCE.				
ACCESSION	AC111472				
VERSION	AC111472.5 GI:30579364				
KEYWORDS	HTG; HTGS_PHASE2; HTGS_DRAFT; HTGS_FULLTOP.				
SOURCE	Rattus norvegicus (Norway rat)				
ORGANISM	Rattus norvegicus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;				

1 (bases 1 to 262016)

1 (bases 1 to 262016)

1 (bases 1 to 262016)

Nwaokenemeh,O., Okwuonu,G., Olarnpunsagoon,A., Pal,S., Parks,K.,
 Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C.,
 Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L.,
 Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,
 Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F.,
 Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J.,
 Sanders,W., Savery,G., Scherer,S., Scott,G., Shatsman,S., Shen,H.,
 Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajs,D.,
 Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
 Steimle,M., Strong,R., Sutton,A., Svatek,A., Tabor,P., Taylor,C.,
 Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K.,
 Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
 Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
 Williams,G., Willson,R., Wleczyk,R., Wooden,H., Worley,K.,
 Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
 Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von
 Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
 Weinstock,G. and Gibbs,R.A.

Direct Submission

Unpublished

2 (bases 1 to 262016)

Worley,K.C.

Direct Submission

Submitted (19-FEB-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 262016)

Rat Genome Sequencing Consortium.

Direct Submission

Submitted (13-MAY-2003) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA

On May 13, 2003 this sequence version replaced gi:24942244.

the sequence is the result of a combination of NGS-based reads

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GMJZ

Center clone name: CH230-82D4

----- Summary Statistics

Assembly program: Atlas 3.0;

Consensus quality: 245356 bases at least Q40

Consensus quality: 247686 bases at least Q30

Consensus quality: 249572 bases at least Q20

Estimated insert size: 257162; sum-of-contigs estimation

Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)

* NOTE: This sequence may represent more than one clone.

* NOTE: This is a 'working draft' sequence. It currently

* consists of 1 contigs. Gaps between the contigs

+ are represented as runs of N. The ends of the clones

Db	4205	GTAA-----TTGTAGCATTGAGGTCAAGGAAAGAGGTGGAGCAGGATGGGAGTGGGATCC	4259
Qy	415	CAGAAGTGATCTGGGCTGGACAGACTAGCTGAACCTGGCCAGCTCTGGGTTCAACAAGAAA	474
Db	4260	CTAGGTCTTTGTAGGGATAGCTAGTCTA-TTGAAATGGGGAGCTCTAGGTTTGATGAGAGA	4318
Qy	475	CCCTACCTCCATAAACATAAAAGTGTGATGGAGAAAGGCACCTAAATGTCAAACCTCAAAACCCC	534
Db	4319	CTCTGCTTCGAAAAAGTAAGAGAAATAATAGAGAAAGACACCAAAATATCGATCTCTTACTTC	4378
Qy	535	TACCTGCAATGTGCACACACATACATCCACACACACACACACACACACACACACA	593
Db	4379	CACATGTGCACGCGCACACACACACACACA-CACACACACACACACACACACACACA	4436

Search completed: June 16, 2010, 20:34:55
 Job time : 1427 secs